

Special Issue

Novel Extended Surface Electrocatalysts

Message from the Guest Editors

Nanostructured and extended surface catalysts can provide benefits to electrocatalysis beyond nanoparticles. Often, this class of material produces site-specific activities an order of magnitude greater than conventional catalysts. Improved kinetics has been accomplished by tuning surface structure, including the purposeful inclusion of facets, or nanostructures avoiding less active or stable surfaces. As nanostructures have become increasingly vital in catalyst development strategies, this Special Issue is focused on “Novel Nanostructures and Extended Surface Electrocatalysts”. Several aspects of nanomaterial development are of primary importance to this Special Issue and include the synthesis and characterization of extended surfaces and nanostructures. Fundamental studies related to strategies for improve activity or durability, including surface structure and alloying, and studies related to the mechanism for improvement are also of critical importance.

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